

**CLAIM AMENDMENTS**

IN THE CLAIMS

This listing of the claims will replace all prior versions, and listing, of claims in the application or previous response to office action:

1. (Original) A filter for a carcinogen reduction, the filter comprising:  
a filtering surface operable to filter carcinogen-containing material; and  
a carcinogen-reducing amount of nucleic acid.
2. (Original) The filter of Claim 1, wherein the nucleic acid is distributed on the filtering surface.
3. (Original) The filter of Claim 2, wherein the nucleic acid is substantially uniformly distributed on the filtering surface.
4. (Original) The filter of Claim 1, wherein the nucleic acid provides structural support to the filter.
5. (Original) The filter of Claim 1, wherein the filter comprises at least approximately 80% nucleic acid by weight.
6. (Original) The filter of Claim 1, wherein the nucleic acid comprises purified DNA.
7. (Original) The filter of Claim 1, wherein the nucleic acid comprises apurinic acid.
8. (Original) The filter of Claim 1, wherein the carcinogen-containing material comprises a polyaromatic hydrocarbon.
9. (Original) The filter of Claim 1, wherein the carcinogen-containing material comprises at least two carcinogens capable of reacting with nucleic acid.

10. (Original) A filter for carcinogen reduction in tobacco smoke, the filter comprising:  
a filtering surface operable to filter carcinogen-containing tobacco smoke; and  
a carcinogen-reducing amount of nucleic acid.
11. (Original) The filter of Claim 10, wherein the nucleic acid is distributed on the filtering surface.
12. (Original) The filter of Claim 11, wherein the nucleic acid is substantially uniformly distributed on the filtering surface.
13. (Original) The filter of Claim 10, wherein the nucleic acid provides structural support to the filter.
14. (Original) The filter of Claim 10, wherein the filter comprises at least approximately 80% nucleic acid by weight.
15. (Original) The filter of Claim 10, wherein the nucleic acid comprises purified DNA.
16. (Original) The filter of Claim 10, wherein the nucleic acid comprises apurinic acid.
17. (Original) The filter of Claim 10, wherein the tobacco smoke comprises a polyaromatic hydrocarbon.
18. (Original) The filter of Claim 10, wherein the tobacco smoke comprises at least two carcinogens capable of reacting with nucleic acid.

Claims 19-57. (Cancelled)